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had since extended the observations so as to get proofs of the same principle from single bud cases. He exhibited specimens of some maple shoots of the present season's growth and showed that there was a gradual diminution of strength in the leaves from the early spring to the present time; *but just in proportion as the leaf lost in vigor the axillary buds gained in strength.* The upper buds were large and plump, the lower scarcely discernible. The inference was made clear, from these illustrations, that whatever may be the cause of the simultaneous appearance of leaves and axillary buds, they were not in harmony together.

He further suggested how very important it was that botanists should note well the most trivial phenomenon. These facts, which bid fair to revolutionize one of the most popular dogmas in vegetable physiology, had all originated from the single observation that the glands on the leaf stalks of the common wild senna weed, *Cassia marilandica*, were not always in one fixed position, and could not, therefore, be an elementary part of the regular leaf system. They were afterwards found to be buds which had been devoured, as it were, by the leaf, and actually absorbed into its structure.

Mr. Redfield noticed the finding of *Aspidium aculeatum* in the Catskill Mountains, two degrees farther south than it had heretofore been observed.

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*September 14th.*

DR. LECONTE in the Chair.

Nine members present.

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*September 21st.*

DR. RUSCHENBERGER, Vice-President, in the Chair.

Sixteen members present.

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*September 28th.*

DR. BRIDGES in the Chair.

Twenty members present.

The following gentlemen were elected Members :

Jas. Cumisky, M. D. ; T. H. Struts ; Nathaniel E. Macomber ; Wm. H. Fynn.

Prof. Geo. H. Cook, of Princeton, N. J., was elected a Correspondent.

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*Oct. 5th.*

DR. RUSCHENBERGER, Vice-President, in the Chair.

Eighteen members present.

The following papers were presented for publication :

"Metors, their composition and the cause of their ignition and of their white trails." By Jacob Ennis.

"On the variations of the Genus *Ægiothus*." By Elliott Coues, A. M.

1869.]